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BUREAU OF BIOLOGICAL SURVEY

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FIELD DIARY

Mr. Vernon Bailey
Washington D. C.

(Official title.)
Oregon 1930

Period, _____ to _____

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Nov. 21 Portland, Oregon ¹⁹³⁰

Arrived at Portland 7:35 AM
and went to Hoyt Hotel across
the street from the post office.
Spat a much needed bath and
started on field reports for Washington.

Nov. 22 - Wrote all day,
Lunched at Oyster loaf on
farmed Olympia oysters, delicious.

Nov. 23 - Sunday. Went to
Jewett's for dinner and had
wonderful view of Mt. Hood and
St. Helens.

Warm and sunshiny and
lots of eases and Chrysanthemums
in blossom.

Nov. 24 Portland to Eugene.

Had conference with Jewett
and Gabusson and Baile in
forenoon. Went to lunch
with Jewett & Brailey and saw
Braileys egg and skin collection
the most perfect I ever saw.
with many rare species.

At 3 PM started for Eugene
with Elmer Williams with his
Ford roadster truck and arrived
at 11:15, 124 miles on good roads
with a good driver and comfortable
car. Met Chester Height
our trapper at Eugene and
planned trip for tomorrow.

Wonderful view of Hood and
St. Helens & Adams & the peak of
Jefferson but dark before we
reached a view of Three Sisters
Warm and pleasant.

Nov. 25, ¹⁹³⁰ Eugene, Oregon.

Started out for poison line at 8 AM west of Radio Cottage Grove. Followed trail for 4 miles over ridges in heavy timber with Chestnut ^{to 60 feet} & ^{to 80 feet} Hazel. No bait station used but poison in hard balls had been placed along the sides of trail through woods. Many were found, some were missing, a few had been nibbled by mice or squirrels. One Peromyscus gambeli found dead near a bait was all we found but half a dozen coyotes had previously been fed along this line. We saw remains of two that had not been saved.

Mr. Hart reports 100 coyotes taken in this region in four years but probably as many more killed by poison and not food. Only 14 trapped.

Cheset Night Eugene.

Coyotes, 100 in four years, only 14 in traps

probably as many were passed out for
baconous - 6 taken, all poisoned

Skunks - not over six, all poison.

Spilogale - 2 poisoned.

Peromyscuses - A few poisoned

Baboon ~~not~~ ^{not} poisoned

Quail - one poisoned

Duck - one caught in trap yesterday.

Bear - 1 poisoned and 2 trapped

Dogs - A few poisoned

Blue grouse, 100 caught in coyote traps.

Oregon Robin, 100 caught in coyote
traps.

Many sheep, goats, deer, and
game birds killed by coyotes.
Droppings scattered along trail

Returned to Eugene at
1 PM and saw County Agent
in afternoon. Mr. Fildler,
has given out no poison.

Saw County Judge and petition
he had received against using poison
in Linn Co. signed by 93 residents
of Row River Valley, SE of Eugene.
This is a good deal country and
everybody keeps hounds for hunting
deer. They also keep a pup but can
wore for their hounds. It is
a region long famous for poachers
and settled by old timers.

They say the poison kills more
fur bearing and valuable animals
than the coyotes. They want
to use "varmint dogs" for hunting
coyotes, cats, and cougars and
prefer to control such animals
themselves. Let em.

But they want to eat all any

worry in the county budget for coyote control and leave the rest of the county without protection.

Another hearing will be held tomorrow.

Chetco Hight keeps coyotes down to practically harmless numbers in two large counties Lane and Lincoln, really controlling them in half of Western Oregon as no other trappers operate nearer them Marshfield and Rogue River Valley. To cover this large area he uses poison almost entirely all the year around and places a line for some local farmers to go over and keep watch of. He also gives out prepared poison baits to many sheep men and farmers to use on or near their own places.

This an exceeding economical and efficient method of control and enables one man to cover a large territory.

He says there are no martens, no mink, no foxes in his area.

He gets a very few coons, skunks and Spilogale but of little value at any time.

Keeping the coyotes under control has kept deer abundant and we saw numerous tracks today where they had followed the trail and eaten all the fresh mushrooms they could find. Cattle and sheep also eat them as do squirrels and mice and many birds. They are very numerous and of many kinds, largely Russula, Boletus, cæsal, fairy rings and a snow white form I never saw before.

Went through miles of wonderful meadow, unburned woods full of ferns and the ground carpeted with Hypnum and other mosses.

A heavy frost is warning, the first, but many roses and Chrysanthemums were not killed. A warm clear day. Collected can of coyote droppings.

Nov. 26 - Engine up McKenzies River
Chester Hight took me up.

The McKenzies River about 15 miles
to Frank Haagen's farm just
across the river from the road.
Went over a poison line that
where 6 or 7 coyotes had been
killed but found only one dead
and very old Skibogals.

Got plenty of coyote droppings
marked made up of goat and deer hair.

Saw a lot of fresh deer tracks,
several ruffed grouse, one
mountain quail.

Returned to Engine about
and to Portland at night.

Mr. Haagen keeps several
hundred sheep and has just
sold his flock of goats.

Has a beautiful place of 1400
acres, meadows, falls, springs, forest,
bottoms & good crops.

Dogs kill more sheep than coyotes.
Lane pays 3000 or 4000 dollars a
year for sheep killed by dogs as long
as the dog tax money lasts. Linn Co.,
about the same. Most of the dogs
are kept for rams, deer, some
for varmint dogs & coon hunting.

Last fall a police dog got lost
by an automobile near Coopers
Grove and went wild, killing
27 sheep and goats before it was
poisoned - probably were not proved.

Two years ago a police dog
near Grants Pass killed a child
and tore it all to pieces.
They are much worse than coyotes
or wolves when uncontrollable.
Are only half tamed wolves.

On return trip to Portland
9 California jackrabbits were counted
crushed in the road between
Englewood and Salem, all freshly
killed within a day or two.

None seen alive.

Killdeer - 2 in field near Salem
Mourning Doves - 3 near Albany.

Nov. 27 Thanksgiving Day,
finished my writing,
packed baggage for trip,
Went to Jewett's for Thanksgiving
dinner

Packed two cans of coyote
droppings to go by mail.

Nov. 28, Portland to Grass Valley.
Left Portland at 10 AM
with Elmer Williams and drove
up the Columbia Highway to
The Dalles, then to Dufur to see
Kasper Mayhew. He had just put
in our coyote and did not
expect any more today on his
poison line so we went on
across the Deschutes at
Shearers Bridge and east to
Grass Valley where Kasper
Stone has put out a lot of traps.
Arranged to go with him
in morning and went to hotel
for night.

Foggy and rainy in morning but
cleared up until we struck frost
and fog on the high country
near Dufur. Frost and fog
again and hills east of Deschutes.
but not much snow.

Nov. 29 - Left Grass Valley at 8 AM and went over trap line with trapper Stone along the crest of west rim of John Day Canyon and at head of big gulch leading down to west.

Examined 3 of his poison stations but got only one coyote and found two eagles eating it. They had torn the skin to tatters and eaten most of the meat and insides. Only the scalp could be saved. It was about 100 yards from the dead horse where poisoned.

Ravens were eating on both the other horses, 6 on one and 2 on the other. None had been killed yet but they soon will be.

Saw a few magpies and lots in the day on Willow Creek below. Heard a flock of 100 or more magpies. Saw a few along the road and a few nests.

Geese - About 1,000 seen on sandbars
and in still pools in the Columbia
and one flock of 50 near Moro over
the high prairie where they feed
in the stubble and growing grain fields.

Ducks - A few in Columbia River

Eagles - 2 seen eating coyotes, probably
Golden. Destroy many coyote skins.

Ravens - About a dozen seen.

Very numerous and breed along cliffs
of Columbia & probably till going place.

Magpies - A few seen along way and
one flock of 100 or more below Hepner.

Sparrows - 1 seen on Willow Creek

Horned Larks - A few seen near Grass Valley
and Moro.

Juncos - Many seen.

Got lunch at Moro and then
drove down the highway to the
Columbia and up it to Hepner, and
up Willow Creek to Hepner
arriving at 5 PM. after dark.

Was much impressed by the deep
canyons and side gulches with
steep grassy slopes that can be used
only by sheep. Many farms are half
good wheat land and half good sheep land
and many sheep are kept by the best
farmers as well as by some large sheep
men who make this their business.

Farmers are generally prosperous and
have good homes with a variety of stock
and poultry and the control of coyotes
magpies and ravens is important
for all of them.

Talked with a sheep farmer near
Moro, Mr. May, and saw how important
sheep are for sheep lands.

In evening at Hesper met the County Agent, Charles Smith, and he assured me that no poison was given out except to well known cooperators.

Met a number of sheep owners who were loud in their praise of the B.S. control of coyotes.

Bruce Kelley is one of the largest sheep owners in the state and Garrett Barrett and his father have 9500 sheep. Last 163 sheep in 4 months left coyotes over on North Fork of John Day this year.

Had 44 killed in 2 nights last year in same region. Our man Knoblock has cleaned them out recently so there are few left.

Nov. 30 With Elmer Williams and Adam Knoblock drove over to Upper Ranger Station and beyond into edge of North Fork John Day Valley to examine several poison stations put out for coyotes before the snow.

Found no coyotes and only one track but five had been killed there recently and 3 at another place.

Saw hundreds of tracks of elk and deer, some badgers and porcupines, jack rabbit (both kinds), snowshoe rabbits and cottontail tracks up in timber. Red squirrel, weasel and mice tracks.

Snow begins with yellow pines and gets a foot deep on high cold slopes. Was 30 inches last week. Clear and warm and pleasant on snow. Cold and

To Upper R. S.

Rufegrass - 1 sun, scarce
Bluegrass - scarce -
Golden Eagle - 1 sun above Heppner
Pheasants - 4 sun above Heppner -
Flickers - 2 sun
Magpies - A few poisoned & nests seen.
Crossbills - heard.

Elk - Hundreds
White deer - "
Pine squirrel common
Lynx townsendi A few
" " wallacei "
Spilogale putorius "
Porcupine - Many
Coyote - A few
Bobcat - scarce
Bear - Hibernated Nov. 15,
Badger - fresh holes
Weasel - several tracks

foggy below to near Heppner
No fog lower down but all cloudy.
Heavy frost in fog belt as
telephone wires are mostly thick
with frost and many broken down.
Has been foggy for 10 days or
more, the fog belt seems to
be the wheat belt.

Dec. 1, Happens to La Grand.

Left Happens 8 AM and drove to Pendleton where we saw the County Agent, Walter A. Holt who is also secretary of the Oregon Wool Growers Assn. He is a clear thinker and says we are not giving the information to the people we should. Also suggests that Gabrielson use more publicity for our work instead of writing so much for pay and giving so much time to his work.

Saw John Erion, forest supervisor at Pendleton who speaks for a great increase in game, deer, elk and antelope since the coyotes were reduced in numbers.

Saw sheep men, Fred Falconer, largest owner in Oregon, 50,000 or so, & Mac. Hoke, a large sheep owner.

They were much pleased with our work but wanted it pushed harder.

Trappers to La Grandes

Lynx canadensis - a few dead in road
Lynx wallacei - A few dead in road backs
Lynx baileyi - Traps common on mountains
Sylvilagus nuttallii - One dead in road
Weasel, Elmer Williams found one killing a Lynx canadensis
near John Day River a year ago.

Golden eagles - 4 seen along road

Magpie - a few seen

Swainson hawk - 1 seen on pole near road

Shrike - 1 seen

Otocoris - Several flocks seen.

Raven - 1 seen on road

Ducks - Many in reservoirs like Columbia

Pheasants - a few seen along way.

At La Grandes we saw
County Agent Avery and
Forest ranger Tucker

Missed our trappers at Meadow
and Caneca but left word for them
to join us at La Grandes in evening.

Snow all over summit a foot to
two feet deep. Was 30 inches last
week but the road has been scraped
and is clear and dry.

Clouds fog up to edge of snow and
timber, clear above, or partly cloudy
and began snowing as we reached
La Grandes. Skinned an inch but
warm and mostly melted. The
valley was all bare ground before
it began.

Went to Zocapewea Hotel one
of the best in Oregon and of very
moderate rates.

Dec. 2

Coyotes - a few tracks
Badgers - a few tracks and tracks
Weasel - fresh tracks seen
Mink - one seen on river.
Dark rabbit - a few tracks in open
Snowshoe rabbits - a few tracks seen
Red squirrels
Porcupines - Many tracks and signs
and hundreds of trees peeled by them.
dozens killed.
Thawed up hills, fresh on snow.

Dec. 2 La Grand to Baker

Went with Happes Rabbs and
Kinnison over a pass on line
Southwest of La Grand in the
upper Valley of Grand Ronde
River, but got no coyotes.
Five had been picked up there
before the snow but a few
say there. 20 in timbered
corners above the fog and
over 6 inches of solid snow.
Clear and sunny and warm up
there. chilly and dull in the
fog and below. A little new
snow in Grand Ronde Valley.

After 4 PM drove to
Baker and got hold of
Happes Shoemaker and planned
trip with him in morning.

Baker Oregon, Dec. 3.
Lynx rufus - 1 big wolf, 27 lbs., in trap
Caught with scent, fish and other smells.
Coyote - A few fresh tracks
Badger - a few holes
Lynx deserticola - Abundant
Salilepus nuttallii - Tracks com.
Brachylagus, abundant. holes, runways
burrows.
Weasel - fresh tracks abundant

Rough-legged hawk, 1 seen.
Seagullus - 50 or more.
Coot, one with lawn greese in yard
Raven, heard
Crows, 3 seen
Magnus - A few seen.
Pheasant - 1 seen. Many at Herford
Shire 1 northern

Dec. 3 - Baker to John Day
Went out with Trapper Shacawaker
and got a big bobcat in trap,
Weighed 27 lbs and had been in
trap 2 days and nights.

Found a few fresh coyote traps
but did not get any coyotes. Did not
have time to visit all the traps.

Talked with Charles Cotton, sheepman.
Snow 3 inches in town, 6 inches
outside and a foot on high ridge.
Foggy but warm.

Left Baker at 3:30 PM. reached John Day
at 5:30, over Daley Mountain and
up Burnt River Valley west turn over
summit to Prairie & John Day.
Snow over ridges but all bare ground
in John Day Valley. Warm, foggy
at Baker and over range.

Met John Lawrence, trapper at
John Day. Saw one deer and lots of
tracks.

Dec. 4 - John Day & Baker to Burns

John Lawrence, coyote hunter at John Day came with us to Bear Valley on head of Selvies River and went over his pasture line. Got one coyote and 3 others had come to a dead horse where the ravens had eaten up all his baits. Six ravens were still at the horse and many others over the valley. Saw a rough leg and a red tail with one eagle but no other birds except magpies.

Lots of deer tracks in bushes and some snowshoe rabbits, both jack rabbits, cottontails and pygmy rabbits abundant in Bear Valley. Saw one pygmy and lots of deer & tracks, eating sage leaves entirely.

Many old badger holes, some weasel tracks.

Had lunch at Simea ad.
reached Burns at 5 P.M.
Found a good hotel at Burns, The
Welcome.

Snow a foot deep in Bear Valley
but clear and sunny part of day.
Very little snow at Burns.

Saw Dr. Hebbard and went
to office of R. W. Duncan to see
3 bison skulls from Mathias
Lake bed. He gave me one ad
has promised the others to Ray
Corday, manager of Oregon Motors
Association at Portland who
wants to place them in the
state museum at Salem.

Met several stock men but
could not find our trappers.

Kans - Piutes name for a root, probably
same as eppe - Cann garduni -
Honoces - Piutes name for coves

Mr. Brown says Capt. Louis
at Burns is still living.

He was captured when a boy at
a battle with the Piutes at Card
on Duck Creek

He also tells me that the Piutes
vocabulary by Dr. Moeris has been
recently published by Am. Ethnology.

Dec. 5, Burns to Mathews Caves

Drove to Crane and then south
and east to Mr. A. E. Brown's
ranch a couple of miles beyond
Mathews Caves. Mr. Trapper,
Walter Southland, was off on a
trip and did not return so
we missed him but had a good
visit with Mr. Brown, a sheep
and stock rancher who has been
here since 1884. He knows
Capt. Louis and many other
of the Piute Indians and much
of the early history of the country.
Gave me many good records

Went through Mathews
Cave with flashlight but
could not find a bat.

The cave was damp but warm,
about 55° I should guess.

There is a boat on the water but
we did not go in it.

Saw many ravens, about 17

Magpies - a few

Eagle - 1 dead by telegraph pole

Terrificorous roughby - 2

Red tail hawk - 2

Horned larks - 2

Grizzly bear - Skull found in Maligne
Lake near mouth of Selvies River
on dry bed of lake given me
for B.S. by G. N. Johnson,
Mayor of Burns.

See. in Burnes to Revel,

Took all of forenoon to get buffalo
skulls from dry bed of Maligne
Lake, got 10 and other bones and
sent in big box. Saw many
more bones and skeletons, and
a big perfect skull of old bull
in possession of Dr. O. Ausmus
at Laramie. He wants to keep it
but may give it to us sometime.
He gave me one good cow skull
and base of horns of elk and
went and showed us where to
find the buffalo skulls.

The lake is almost dry and
thousands of acres are hard and
cracked where the water has gone
down. Some of the buffalo bones are
out near the water, 2 miles from
store, many others near store
and some are found out in
the tuiles on the edges of the lake.

Oct. 4, Mathur Lake.

Snow Geese, 2000 seen in great flocks
like snowfields on dry lake bed.

Canada geese - 2000 or more seen in
flocks on dry lake bed.

Mostly Mallards, 2000 seen near water
Golden eagles, one or two seen near Burns
ad near lake about west of Burns

Bald eagle, one ad. & one y., near
Lawn, the adult in finer.

Roughleg hawk, 3 or 4 seen

Red tail, 3 or 4 seen.

Ravens, numerous, 40 or more seen

Magpies, 20 or more seen.

Snowy west of way to Bend
but no snow there ad char
at Bend. Cloudy all day at
Burns ad later.

No antelope seen but said
to be common along road.
Country very dry ad had some.

Reached Bend at 5:30 PM

Made 160 miles in 3 1/2 hours.

40 to 50 miles an hour on good
roads. Road mostly straight,
one stretch of 30 miles as
straight as an arrow.

Three Sisters ad Jefferson
show big ad white in evening.
Spent evening with Tapper E. T.

Halbrook, between Bend ad
Redmond.

Redwood -

Eagles 2 seen
Roughleggs, 3 "
Magpies - numerous

Mr. & Mrs. Wilson are very kind proprietors of the Redwood Hotel the second best of eastern Oregon and almost as satisfactory as the Geojawash at LaGrande.

Dec. 7, Bend to Klamath

Went out with Halbrook to four of his poison stations but got only one coyote and one Peromyscus, both dead on the snow near the sheep carcass used as a station. The coyote had gone 50 yards and the mouse lay close to a bed of land and was running on wheels it had been nibbling.

A cold morning, 21° + at Redwood but soon thawing in the sunshine.

Wonderful views of the Three Sisters, Jefferson and other peaks along the Cascades.

Left Redwood at 2 PM and reached Klamath Falls at 4 PM. Good road all the way, well graded.

No snow at Redwood or Bevel but it soon appeared and for a few inches grew deeper to a foot in the lodge pole pines and two feet on the summit at 5604 feet. Then shallow in the Klamath valley and mostly bare ground at Klamath Falls.

Klamath Lake about half frozen over, too dark to see birds. Stopped at Hotel Hall.

Mr. Hall is a genial proprietor.

Dec. 8 Tule Lake

Hutchins gos., 100,000 on Tule Lake
Cackling gos. 200,000
Snow gos. 200,000
Canada geese, 2000 on Chet Lake
Ducks 100,000 on Tule Lake
Coots - a dozen in river back bars
Dabchick, 1 " " "
Blue heron, 1 shot, missed in stomach
Ruddy 4 seen
Roughleg 4 "
Swanson, 2 "
Marsh hawk 3 "
Prairie Falcon 2
Duck hawk 1
Long eared Owl 1
Sparrow hawk 1
Sparrow 2
Robins 200
Solitaires 3
Bluebirds 7
Horned Larks 50
Magpies 20

Dec. 8, Klamath Falls,

Drove over to Bonanza to see
trapper Chas Glasgow
but found he was out on his
trap line. Then drove to
Merrill to see trapper Clint
Conklin but he was out on
his line. Arranged to see
Conklin this evening and to
join Glasgow at 9 in
the morning.

Went down to Tule Lake
below Merrill to see the
geese and ducks and found
both in large numbers.

Got a cackling gos., a snow
goose and great blue heron
for stomachs. The heron had
eaten 1 *Merotis* *notatus*,
the cackling gos. pigweed seeds
and green stuff, the snow goose

Klamath to Banninger Dec 9.

Magpies - 5 or 6

Canada geese 16 flying over

Other geese - big flocks

Coots 2

Robins 200 or more in a flock - &
many others among junipers.

Said to stay all winter & live on berries
of Juniperus occidentalis -

W�adlets - Many seen in junipers
& heard singing in a soft trill.

Stay all winter -

Mountain Bluebirds, 6 seen.

Ducks - said to be dying in Warner
Lake, 4 found dead. Others can not
fly. Probably starving.

Dec. 9 - Klamath Falls.

Drove to Banninger to see trapper
Charles Glasgow and found him in the
shed stretching 4 coyote skins he got
yesterday. Went with him to east
end of Valley to several poison stations
but found only one dead Pseudopas,
got his record for 3 years back
and many good notes.

He is a very intelligent young
man, just married last June
to a very pleasant wife and an
excellent cook. We staid to
dinner.

In afternoon saw Capt.
Oliver Applegate and wrote
up all the notes I could
besides packing to start
for home in morning.

110 - 11. 4th November 1900.

Dec. 10 Left Klamath 10:30 AM
S S for Reno and Hazen via Alturas
Ry. Through Weaverville and across
dry bed of Tule Lake, then over
lava beds to Pit River Valley
and up it to Alturas, then south
over Divide & Modoc Plains.

Much warmth in Pit River Valley
there at Klamath, no snow or ice
and cattle all out in pasture, a number
of them - Big flock of blackbirds
and lot of meadowlarks.

Saw 30 antelope close to train
half way between House Lake and
Weaverville, Calif.

Dec. 10. Klamath & Athens & Rye.
Blue herons - a dozen in ditches in Klamath
Coots, a few near Athens
Eagles - 1 at Klamath, 1 at Athens.
Magpies - A few
Blackbirds, flock of 500 at Athens
Mallard duck, 20 at Athens

Fallon, Nev. Dec. 11.

Mule deer head from Kingston
near Austin, Nevada, 8 point buck
had mounted by Anna Bailey Mills,
Very light gray, with black
forehead and nose band and side spots
on lower lip. No median line of black
on lower lip, no black on ears, black
extending very narrow. White extension
and very pale, whole face and neck white
around eyes, pale still, throat, nose of
lower lip, and stripes on upper lips pale
white, ears with white edges at base and tip
and white stripes inside.

General color light gray, darkest along nose.

See photo -

Killed Oct. 3, 1950. Forest Ranger
A.R. Jorgenson. Head mounted by Anna A. Mills.

Very pale and with clear black and
white markings like eximius -

Fallow, Nevada, Dec. 11, 1930.

Mule deer buck killed in Hunter Creek
Canyon 12 miles west of SW. of Reno,
killed about Nov. 15, 1913, by
Vernon Mills, a 6 point buck
weighing 160 lbs dressed.

General color of head and neck buffy
brown gray, darker brownish black
along ^{and stripes in ears} wave ^{forehead}, heavy eye
ring, nose band and 3 chin stripes
black; face, narrow eye rings,
throat, most of lower lip and narrow
stripes on upper lips white or whitish,
inside of ears mainly white.

Top of tail all white but tip.

Not as uniform but nearer to
macrotis in color than to oreocervus

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**Actual Rise in Soda
Lake Shown by Record**

That the rise in Soda Lake during
the last six years has been on-
ly seven and a half feet, instead of
sixty, as indicated in an interview
published in The Standard last
week, is the fact learned from in-
spection of records at the reclama-
tion office here which has been
keeping data on the level of this
lake for nearly 23 years.

In all that period, the figures
show, the lake has risen 52.2 feet
instead of ninety as previously
indicated.

The period of most rapid rise
of the lake level was between
1920 and 1926 when the gain was
23.2 feet.

During the last five years, the
period of least gain, the lake has
gained elevation at the rate of
about a foot a year. The elevation
of the large lake on November,
this year, was 3990.3 feet above
sea level.

Elevation of the little lake has
been about three feet higher for
several years. In 1912 the dif-
ference in the elevations of the
two lakes was eight feet.

Dec 3, 1930

Board Olzaxic

by v. important fact a refuge.

Actual Rise in Soda Lake Shown by Record

That the rise in Soda Lake during the last six years has been only seven and a half feet, instead of sixty, as indicated in an interview published in The Standard last week, is the fact learned from inspection of records at the reclamation office here which has been keeping data on the level of this lake for nearly 23 years.

In all that period, the figures show, the lake has risen 52.2 feet instead of ninety as previously indicated.

The period of most rapid rise of the lake level was between 1920 and 1926 when the gain was 23.2 feet.

During the last five years, the period of least gain, the lake has gained elevation at the rate of about a foot a year. The elevation of the large lake on November, this year, was 3990.3 feet above sea level.

Elevation of the little lake has been about three feet higher for several years. In 1912 the difference in the elevations of the two lakes was eight feet.

Dec 3, 1930

Board of

Carson Link is Ignored

The start being made this year toward building the Carson City-Leeteville highway, pioneer stretch of the Lincoln route, is not being continued by the highway department.

Federal aid mileage between Mound House and Leeteville was "borrowed" to complete a job in the eastern part of the state with the understanding that it would be restored as soon as the next allotment of federal aid mileage were made available.

The Carson City-Mound House link of the pioneer trail of the Lincoln highway, which had been retained, had been overlooked by the present state highway department until attention was called thereto by H. R. Mighels of the Carson City Appeal.

The department responded with action in terms of actual construction when its members' attention was called to the oversight.

But the department admits nothing of the "borrowed" mileage from Mound House to Leeteville.

The tentative program for 1931 is making use of an available ten miles of federal aid for use between the city limits of Las Vegas and the Boulder dam site.

Durkee Makes Explanation

His department has been overruled, insofar as mere promises are concerned, by the federal bureau of public roads, says S. C. Durkee, state

Fallon, Nevada,

Soda Lake near Fallon has risen about 60 feet in the past 20 years and is now almost full to the lowest edge of the rim. The water in it is probably 250 feet deep and fairly pure since it has filled up with the rising water table from irrigation.

It fills an old crater or cinder cone of volcanic origin and the cone rises 100 feet above the water nearly around the lake. The lake is about a mile wide and a little longer, never freezes, clear and still and beautiful. Thousands of ducks on it now and in winter when the shallow lakes freeze over it is the resting place of innumerable ducks, geese, swans and other water birds. It has sandy shores and little food for birds but is important for a refuge.

just west of mouth of it
are dozens of small lakes and
sloughs of recent origin, mostly
not very deep and with sedge borders
where water birds feed and rest
when not perched at.

Some of these might well be also
included in a refuge as the land
around them is rough sand dunes
and sedges entirely worthless for
any farm purposes. Part of it
is foot land and the value of it
of railroad land is of little value.
Some has sold for 2 dollars an
acre.

A considerable refuge is being
planned in the Custer Sink
or Stillwater Sink country near
Fallon and Soda Lake and
perhaps some of these other ponds
should be included.

Coyotes about Fallon are
rather numerous and kill many
sheep and turkeys, often coming
into small pastures close to
ranch buildings to catch them.

One man has been obliged to
corral his sheep at night to
protect them and thus the coyotes
come in and kill them in the
pasture during the daytime.

There are so many dogs around
that no trapping or poisoning is
allowed and only an occasional
coyote is shot. The sheep on
small farms would add much to the
prosperity of this region.

A border killed a lot of chickens for
a neighbor's sister at Fallon, Nev.
and carried into its burrow. When dug
out the burrow yielded 27 full grown birds
and one badger.

Fallon, Nevada

Jack rabbits are scarce and have been decreasing for over a year. Are much less numerous than last spring but were most numerous 8 years ago, last spring. Some dead rabbits have been seen this last summer.

Coyotes are common and kill sheep and turkeys -

Dec. 12, Fallon, Nevada.

Drove down to the Carson River Delta, away east of Stillwater to see what birds were still there.

The water was mostly frozen over but we could see about 150 species on the ice in small open spaces and hear a lot more over in the fields where they could not be seen. A few ducks and geese could be seen and heard at a distance but we could not get near them.

The area proposed for a refuge is good waterfowl land and water with extensive breeding grounds for ducks, geese and waders.

Cattle must be kept off in the breeding season and probably at all times, so the fields, grass and weeds will remain as food and cover.

Dec. 13 On train

Daylight came about Fallon Nevada and from there to east of Wells the jack rabbit tracks were exceedingly numerous, tramping the snow down like a hay yard along the sides of the track.

After entering Utah I saw no more rabbit tracks or very few for about an hour or until near Montello, Utah where again numerous.

The tracks were not seen for east of Montello and it seems they are mostly in ranch valleys, where there is grass and sagebrush and *Bigelowia*, not in barren unoccupied stretches of country. They evidently gather where the best food is.

Salt lake is all open except a little ice along shores.

A few gulls and ravens seen.

Traveling at Ogallala but not much snow on ground. Travelled all the way to Granville but no snow at Green River at dark. A little snow at Rock Springs at 9 P.M.

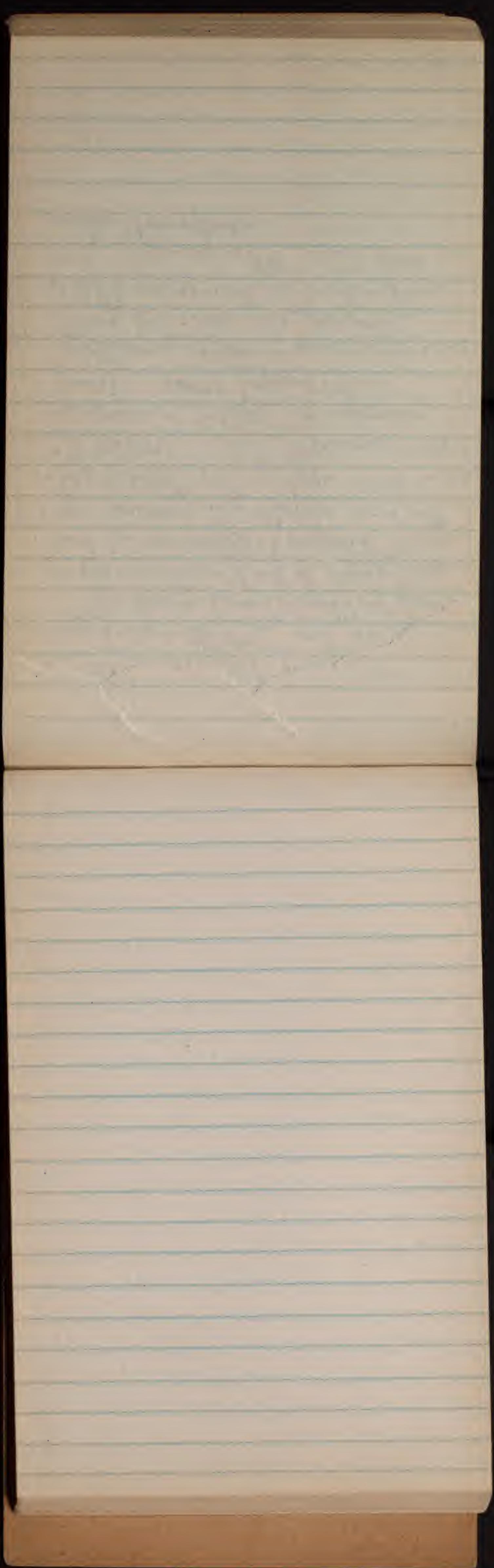
A warm day and very comfortable in car. Read our reports all day.

Dec. 14, On N.P. Train

Daylight somewhere near Cheyenne but out in Nebraska before I got up, all day across Nebraska and entered Omaha at dark.

A little snow on ground in morning but it grew around us as we passed and soon the ground was bare and cattle grazing out in pastures, grass and alfalfa show a touch of green and winter wheat is green over large fields. Lots of corn in stalks and piles on the ground, but now in great circular woven wire tanks that must hold 1000 bushels or more. Some open at the top and some covered with hay. Much stock being fed. Good crops and a rich farm country. Train slow but smooth and I slept all day. Omaha at dark.

Dec. 15 to Chicago & east
Arrived at Chicago on
C. M. & St. P. at 7:30 AM,
Left on B & O at 10 AM,
No snow last night at Omaha
or the eastern half of Nebraska
but in middle of night there
was snow in Iowa and at
daylight at Elgin 5.6 inches
of snow. At Chicago 2.3
inches of snow and snowing
part. Snow tapered off in
southern Indiana and none in
Ohio but ice on ponds.
A little snow met in eastern Ohio
and increasing till after dark
western Pennsylvania.



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E. Otto, Helper.

Sinmash (Sinewash)